



# OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL

Area  
**MISSION RANCHO**  
Machine Id  
**MISSION RANCHO C4**  
Component  
**Refrigeration Compressor**  
Fluid  
**FRICK COMPRESSOR OIL #13 (--- GAL)**

## RECOMMENDATION

We recommend you service the filters on this component. Resample at the next service interval to monitor.

## WEAR

All component wear rates are normal.

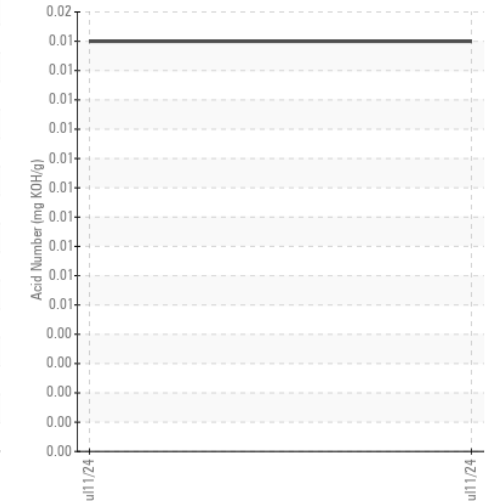
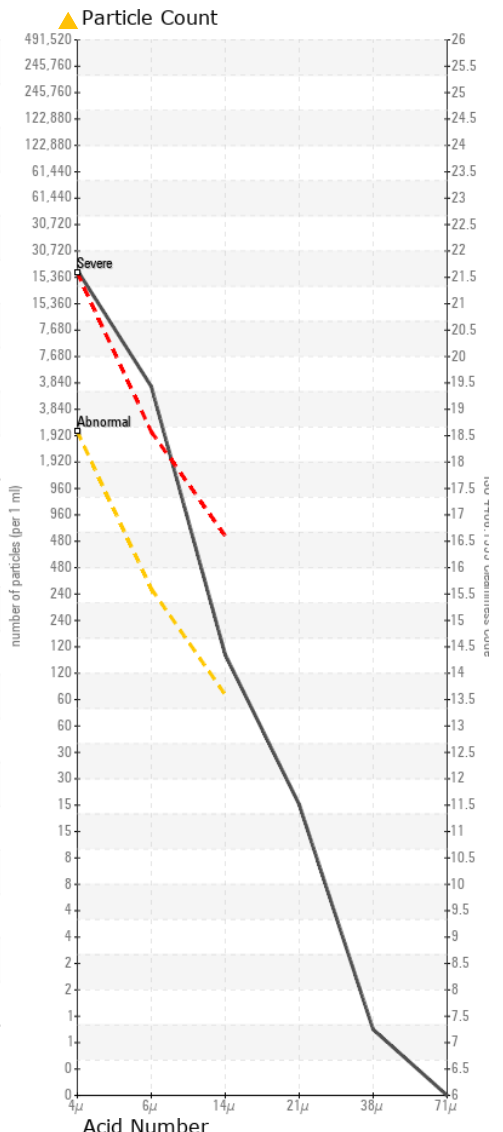
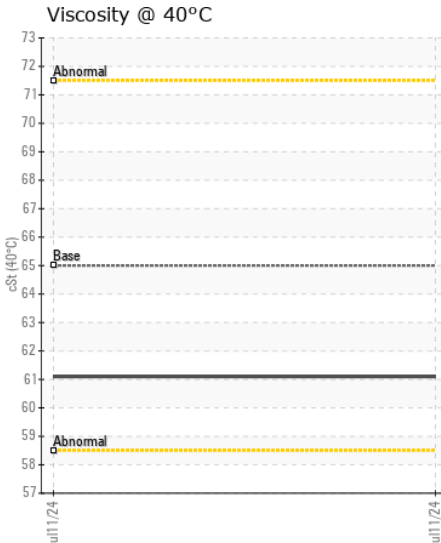
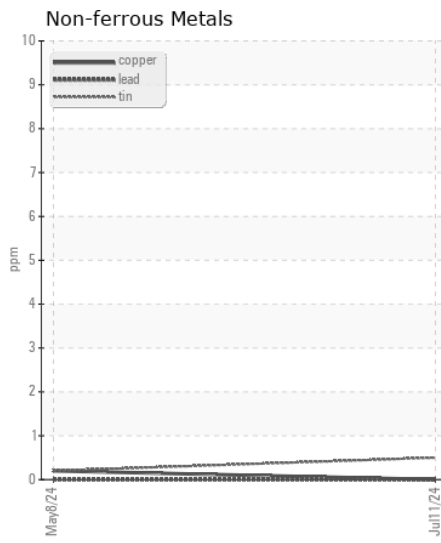
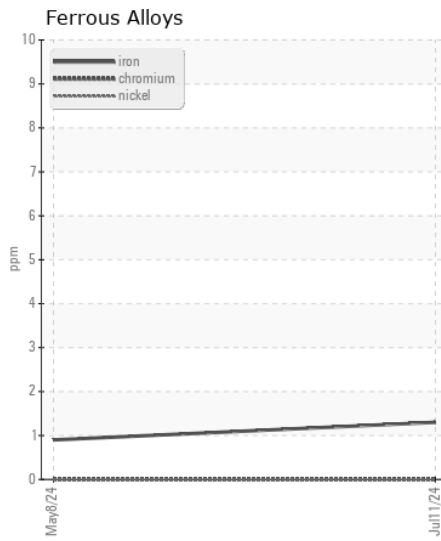
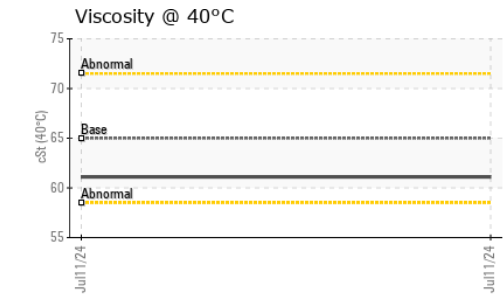
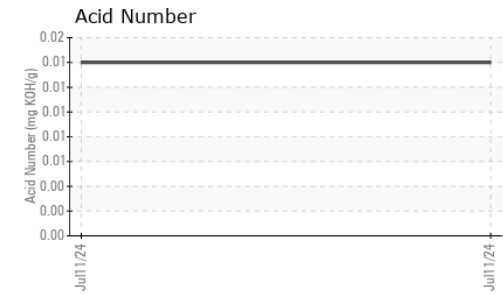
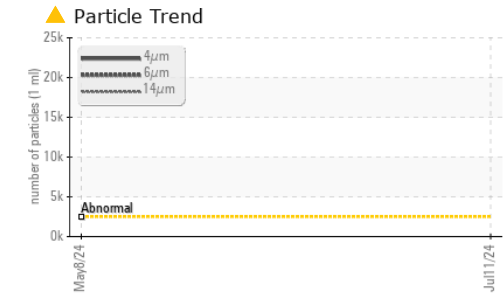
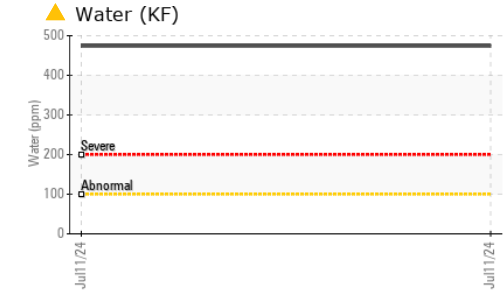
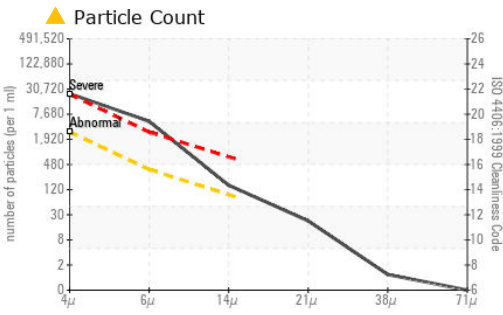
## CONTAMINATION

There is a high amount of particulates present in the oil. There is a light concentration of water present in the oil.

## FLUID CONDITION

The AN level is acceptable for this fluid.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>USP0012286</b>	USP0011522	---
Sample Date		Client Info		<b>11 Jul 2024</b>	08 May 2024	---
Machine Age	hrs	Client Info		<b>36306</b>	36305	---
Oil Age	hrs	Client Info		<b>0</b>	0	---
Filter Age	hrs	Client Info		<b>0</b>	0	---
Oil Changed		Client Info		<b>N/A</b>	N/A	---
Filter Changed		Client Info		<b>N/A</b>	N/A	---
Sample Status				<b>ABNORMAL</b>	NORMAL	---
Iron	ppm	ASTM D5185m	>8	<b>1</b>	<1	---
Chromium	ppm	ASTM D5185m	>2	<b>0</b>	0	---
Nickel	ppm	ASTM D5185m		<b>0</b>	0	---
Titanium	ppm	ASTM D5185m		<b>0</b>	<1	---
Silver	ppm	ASTM D5185m	>2	<b>0</b>	<1	---
Aluminum	ppm	ASTM D5185m	>3	<b>&lt;1</b>	0	---
Lead	ppm	ASTM D5185m	>2	<b>0</b>	0	---
Copper	ppm	ASTM D5185m	>8	<b>0</b>	<1	---
Tin	ppm	ASTM D5185m	>4	<b>&lt;1</b>	<1	---
Vanadium	ppm	ASTM D5185m		<b>0</b>	<1	---
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Silicon	ppm	ASTM D5185m	>15	<b>&lt;1</b>	<1	---
Potassium	ppm	ASTM D5185m	>20	<b>&lt;1</b>	1	---
Water	%	ASTM D6304	>0.01	<b>▲ 0.047</b>	---	---
ppm Water	ppm	ASTM D6304	>100	<b>▲ 474</b>	---	---
Particles >4µm		ASTM D7647	>2500	<b>▲ 20643</b>	---	---
Particles >6µm		ASTM D7647	>320	<b>▲ 4516</b>	---	---
Particles >14µm		ASTM D7647	>80	<b>▲ 135</b>	---	---
Particles >21µm		ASTM D7647	>20	<b>19</b>	---	---
Particles >38µm		ASTM D7647	>4	<b>1</b>	---	---
Particles >71µm		ASTM D7647	>3	<b>0</b>	---	---
Oil Cleanliness		ISO 4406 (c)	>18/15/13	<b>▲ 22/19/14</b>	---	---
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Debris	scalar	*Visual	NONE	<b>NONE</b>	LIGHT	---
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Appearance	scalar	*Visual	NORML	<b>NORML</b>	NORML	---
Odor	scalar	*Visual	NORML	<b>NORML</b>	NORML	---
Emulsified Water	scalar	*Visual	>0.01	<b>NEG</b>	NEG	---
Sodium	ppm	ASTM D5185m		<b>0</b>	0	---
Boron	ppm	ASTM D5185m		<b>&lt;1</b>	0	---
Barium	ppm	ASTM D5185m		<b>0</b>	0	---
Molybdenum	ppm	ASTM D5185m		<b>0</b>	0	---
Manganese	ppm	ASTM D5185m		<b>0</b>	<1	---
Magnesium	ppm	ASTM D5185m		<b>0</b>	0	---
Calcium	ppm	ASTM D5185m		<b>0</b>	0	---
Phosphorus	ppm	ASTM D5185m		<b>0</b>	0	---
Zinc	ppm	ASTM D5185m		<b>0</b>	0	---
Sulfur	ppm	ASTM D5185m		<b>0</b>	21	---
Acid Number (AN)	mg KOH/g	ASTM D974		<b>0.014</b>	---	---
Visc @ 40°C	cSt	ASTM D445	65.0	<b>61.1</b>	---	---



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : USP0012286  
**Lab Number** : 06235002  
**Unique Number** : 11123836  
**Test Package** : IND 2

**Received** : 12 Jul 2024  
**Tested** : 15 Jul 2024  
**Diagnosed** : 15 Jul 2024 - Doug Bogart

**RACE ENGINEERING CORP**  
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To discuss this sample report, contact Customer Service at 1-800-237-1369.

\* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)